

## CLAIMS

1. An extrusion molding machine, which is characterized by a storage bin for supplying foam material to be molded into foam body, a cylinder and a screw for mixing and transporting the foam material from storage bin, a mold at cylinder front end, a tank provided with piping connecting storage bin and screw and storing the fluid for foaming the above-mentioned foam material, and a heater for melting foam material and at the same time heating the foaming fluid by stages from the initial temperature below its boiling point to the final temperature of its total vaporization.

2. The extrusion molding machine as described in Claim 1, which is characterized by using water as foaming fluid. The initial temperature of the above-mentioned heater is set as above 60°C and below 100°C, and the final temperature is set as above 160°C and below 240°C. Such foam material and foaming fluid are heated in six stages.

3 The extrusion molding machine as described in Claim 1 or Claim 2, which is characterized by a vibrating mechanism effecting intermittent vibration laterally on the side of the above-mentioned storage bin, with such foam material in particulate state.

4 The extrusion molding machine as described in Claim 3, which is characterized by an electric motor and a cam mounted thereon to effect vibration of storage bin by intermittently knocking the side of storage bin by the cam driven by the electric motor.

5 The extrusion molding machine as described in any one of Claims 1-4, which is characterized by multiple apertures for extrusion, with such apertures arranged in equal-shaped triangles formed by three neighboring apertures.

6 The extrusion molding machine as described in Claim 5, which is characterized by such multiple apertures in circular shape, 1.8 mm-2.2 mm in diameter.

7. The extrusion molding machine as described in any one of Claims 1-6, which is characterized by a temperature control device to adjust the temperature of mold in the range of 160°C-220°.

8. The extrusion molding machine as described in any one of Claims 1-7, which is characterized by a shearing device in place of the above-mentioned mold, set up at one side of the above-mentioned cylinder, rotating at a certain speed to cut the extruded foam body from the cylinder.